

Message

From: d'Almeida, Carolyn K. [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9EC4401AFA1846DD93D52A0DDA973581-CDALMEID]
Sent: 6/6/2016 4:33:53 PM
To: ARohrbaugh@TechLawInc.com; KBrasaemle@TechLawInc.com
CC: Anderson, Michael [MAnderson@TechLawInc.com]
Subject: FW: 2016-6-1 - Williams AFB - Clarification request - Borehole depth extension if NAPL encountered -downhole packer purpose - ST012 EBR well install
Attachments: removed.txt

fyi

From: JERRARD, CATHERINE V GS-13 USAF HAF AFCEC/CIBW [mailto:catherine.jerrard@us.af.mil]
Sent: Monday, June 06, 2016 8:34 AM
To: Wayne Miller <Miller.Wayne@azdeq.gov>
Cc: steve@uxopro.com; Smallbeck, Donald R. (donald.smallbeck@amecfw.com) <donald.smallbeck@amecfw.com>; Pearson, Stuart C. (stuart.pearson@amecfw.com) <stuart.pearson@amecfw.com>; (Geoffrey.Watkin@cn-bus.com) <Geoffrey.Watkin@cn-bus.com>; d'Almeida, Carolyn K. <dAlmeida.Carolyn@epa.gov>; Davis, Eva <Davis.Eva@epa.gov>
Subject: FW: 2016-6-1 - Williams AFB - Clarification request - Borehole depth extension if NAPL encountered -downhole packer purpose - ST012 EBR well install

Wayne --

Thanks for following up your questions with Steve's notes. Here are Don's responses noted in red.

Thanks.

Cathy

//SIGNED//
CATHY JERRARD, P.E., PMP
AFCEC/CIBW
706 Hangar Road
Rome, New York 13441
Phone: 315-356-0810, ext. 204
email: catherine.jerrard@us.af.mil

-----Original Message-----

From: Wayne Miller [mailto:Miller.Wayne@azdeq.gov]
Sent: Wednesday, June 01, 2016 12:22 PM
To: JERRARD, CATHERINE V GS-13 USAF HAF AFCEC/CIBW <catherine.jerrard@us.af.mil>
Subject: 2016-6-1 - Williams AFB - Clarification request - Borehole depth extension if NAPL encountered -downhole packer purpose - ST012 EBR well install

Can you please assist in clarifying a couple EBR-boring field observations?

(1) Do EBR well borings extend beyond NAPL observation/evidence depths?

Yes. Borings have been extended deeper when NAPL dye tests were positive at or near the bottom of the planned boring.

(2) Why are downhole packers installed?

Packers are installed to isolate the screens at a well locations that have screens in two zones (e.g., both a UWBZ and an LSZ screen at one well).

Field observations revealed NAPL odors/positive dye test to 223 ft. LSZ50-INJ (Table 4-1 depth 220 ft.). Did borehole continue until LNAPL final depth exceeded?

Yes, the boring went past 230 feet and then stopped due to no indication of LNAPL.

How is final depth determined?

Boring depth is as indicated in Addendum #2 unless a decision is made to drill deeper due to positive dye test kits. Well screen intervals are adjusted from the Addendum #2 plan based on geologic and contamination data observed during drilling.

What is purpose of downhole packers (reference to LSZ51, and any other locations)?

See explanation above.

Thank you.

Wayne Miller

Arizona Department of Environmental Quality,

Waste Programs Division,

Remedial Projects Section,

Federal Projects Unit

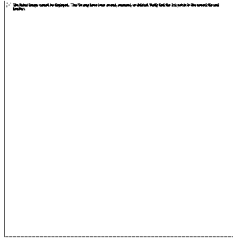
Email: Miller.wayne@azdeq.gov <<mailto:Miller.wayne@azdeq.gov>>

Phone: 602.771.4121

Arizona Department of Environmental Quality,

1110 West Washington Street

Phoenix, AZ 85007



This message is the property of Amec Foster Wheeler plc and/or its subsidiaries and/or affiliates and is intended only for the named recipient(s). Its contents (including any attachments) may be confidential, legally privileged or otherwise protected from disclosure by law. Unauthorised use, copying, distribution or disclosure of any of it may be unlawful and is strictly prohibited. We assume no responsibility to persons other than the intended named recipient(s) and do not accept liability for any errors or omissions which are a result of email transmission. If you have received this message in error, please notify us immediately by reply email to the sender and confirm that the original message and any attachments and copies have been destroyed and deleted from your system. This disclaimer applies to any and all messages originating from us and set out above. If you do not wish to receive future unsolicited commercial electronic messages from us, **please forward this email to: unsubscribe@amecfw.com and include "Unsubscribe" in the subject line.** If applicable, you will continue to receive invoices, project communications and similar factual, non-commercial electronic communications.

Please click <http://amecfw.com/email-disclaimer> for notices and company information in relation to emails originating in the UK, Italy or France.